Geometry B – House Project

In this project, you will be applying the idea of area through creating a plan for a house and yard. This sheet details the first two stages of the project. The third stage will be introduced in a later handout.

**The rough draft of Stage One is due on FRIDAY, January 15.**

**The rough draft of Stage Two # 1 (the three floor plans) is due on TUESDAY, January 19**.

**The final due date is TBA.**

# Stage One: Your Client

You need to make a profile of the family or individual for whom you are designing this home. This should be a narrative, which includes discussion of the following:

* Number of people in the family, including ages and genders
* Interests of the family members
* Priorities in terms of home design
* Where the home will be (urban, surburban, rural)
* Any other information that would help the reader understand the kind of house this family or individual would like

This should be at least 1 page long, typed.

# Stage Two: The Plan

This stage will include:

1. A drawing of your floor plan.

*You must decide on a reasonable scale for your house (1 inch or 1 cm equals how many feet?), which should be clearly labeled on your plans.*

Your two story floor plan should include:

* 3 bedrooms, with 1 master bedroom (that is bigger than the other 2)
* A living room
* A dining room
* A kitchen
* 2 closets on the 2nd floor
* At least 2 bathrooms (you may put them wherever you want)
* A garage (the size is up to you)
* Outside landscaping or construction that must include one feature, such as a
* pool, garden, deck, or patio.
* A fence that surrounds part of or all of your house
* You may additional rooms if you like (family room, den, home gym, office, etc.)

You should have 3 drawings by the time you’re done:

* One floor plan for the first floor
* One floor plan for the second floor
* One landscape design for the outdoors

2. Distinct calculations based on the aspects of your house:

* Find the area and perimeter of each room in your house.
* Find the area and perimeter/circumference of your outdoor feature.
* Find the perimeter and area of the fenced-in region outside.
* List these calculations on a separate sheet of paper and show all of your work.